



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Job No.: CTCE/BBMP/KRIDL/W.No.09/CSR-12/234h/CEMENT/2016-17

Date: 02.01.2017

TEST REPORT ON CEMENT

* Customer	:	Asst. Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	Executive Engineer, KRIDL, Bangalore.
* Name of Work	:	Providing and fixing open GYM equipments at Canara Bank Layout park in Ward No.09, Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/74/2016-17 Dated: 20.07.2016
* Sample ID	:	Cement – Sample 2
Sample Received on	:	31.12.2016
Period of Testing	:	31.12.2016 to 02.01.2017



The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	28.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	155 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	475 Minutes	Not More than 600 Minutes
3	Soundness by Le Chatelier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Note:

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VIDYARANI P.K.
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Job No.: CTCE/BBMP/KRIDL/W.No.09/CSR-12/234h/SAND-Gradation/2016-17

02.01.2017

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	: Asst. Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	: Executive Engineer, KRIDL, Bangalore.
* Name of Work	: Providing and fixing open GYM equipments at Canara Bank Layout park in Ward No.09, Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE/BTP/WO/74/2016-17 Dated: 20.07.2016
* Sample ID	: Fine Aggregates - Sample 2
Technical Reference	: IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	: 31.12.2016
Date of Testing	: 02.01.2017



Total Wt. of Aggregates in gms = 1000

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	92.80	90-100	90-100	90-100	95-100
2.36	74.30	60-95	75-100	85-100	95-100
1.18	53.70	30-70	55-90	75-100	90-100
600 Micron	26.20	15-34	35-59	60-79	80-100
300 Micron	10.40	5-20	8-30	12-40	15-50
150 Micron	2.10	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/KRIDL/W.No.09/CSR-12/234h/AGG/GR/2016-17

02.01.2017

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	: Asst. Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	: Executive Engineer, KRIDL, Bangalore.
* Name of Work	: Providing and fixing open GYM equipments at Canara Bank Layout park in Ward No.09, Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE/BTP/WO/74/2016-17 Dated: 20.07.2016
* Sample ID	: Coarse Aggregates (40mm)
Technical Reference	: IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	: 31.12.2016
Date of Testing	: 02.01.2017



Total Wt. of Aggregates in gms= 5000

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.60	95-100	85-100
20	40.60	30-70	0-20
10	15.70	10-35	0-5
4.75	3.40	0-5	-

* Information is furnished by the Customer/Representative

Remarks: This sample is under graded specific limits.

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Job No.: CTCE/BBMP/KRIDL/W.No.09/CSR-12/234h/CC Solid Block/2016-17

05.01.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF SOLID CONCRETE BLOCKS

* Customer	: Asst. Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	: Executive Engineer, KRIDL, Bangalore.
* Name of Work	: Providing and fixing open GYM equipments at Canara Bank Layout park in Ward No.09, Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE/BTP/WO/74/2016-17 Dated: 20.07.2016
Technical Reference	: IS: 2185 (Part-1) - 2005 (RA-2010)
Size of Blocks	: 400mm x 200mm x 200mm
Cross Sectional Area	: 80000 mm ²
No. of Blocks Tested	: 08
Sample Received on	: 02.01.2017
Date of Testing	: 05.01.2017



Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm ²)	Requirement as per IS: 2185 (Part-1) - 2005 (RA-2010)
1	Block 1	36.52	263.5	3.29	Minimum required Compressive Strength of Individual Units 3.20 N/mm ²
2	Block 2	34.58	259.7	3.25	
3	Block 3	35.23	258.3	3.23	
4	Block 4	36.85	260.4	3.26	
5	Block 5	35.45	261.5	3.27	
6	Block 6	34.72	260.3	3.25	
7	Block 7	36.58	259.8	3.25	
8	Block 8	35.12	261.2	3.27	

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Job No.: CTCE/BBMP/KRIDL/W.No.09/Tiles/2016-17

20.01.2017

TEST REPORT ON CEMENT CONCRETE TILES

* Customer	: Asst. Executive Engineer, Vidyanarayapura Sub Division, BBMP, Bangalore.
* Agency	: Executive Engineer, KRIDL, Bangalore.
* Name of the Work	: Providing and fixing open GYM equipments at Canara Bank Layout park in Ward No.09, Vidyanarayapura Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE/BTP/WO/74/2016-17 Dated: 20.07.2016
* Sample ID	: Pre-Polished Designer Cement Concrete Tiles
Technical Reference	: IS: 1237-1980 (Reaffirmed 2006)
No. of Samples Tested	: 12 (Twelve)
Date of Testing	: 20.01.2017



I. DIMENSIONS TEST:

Sl. No.	Measured Dimension (mm)	Tolerance as per IS 1237-1980 (Reaffirmed 2006)	Thickness	Tolerance as per IS: 1237-1980 (Reaffirmed 2006)
1	300 x 300	300± 1mm X 300± 1mm	25.00	25 +5mm
2	300 x 300	300± 1mm X 300± 1mm	26.00	
3	300 x 300	300± 1mm X 300± 1mm	26.00	
4	300 x 300	300± 1mm X 300± 1mm	25.00	
5	300 x 300	300± 1mm X 300± 1mm	26.00	
6	300 x 300	300± 1mm X 300± 1mm	25.00	

II. WATER ABSORPTION

Sl. No.	Water Absorption (% by Wt)	Average (% by Wt)	Requirement as per IS: 1237-1980 (Reaffirmed 2006)
1	2.1	2.35	The average percentage of water absorption should not exceed 10% when 6 full size tiles are tested.
2	2.3		
3	2.2		
4	2.6		
5	2.4		
6	2.5		

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Job No.: CTCE/BBMP/KRIDL/W.No.09/CSR-12/234h/Cube/2016-17

10.02.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	: Executive Engineer, KRIDL, Bangalore.
* Name of the work	: Providing and fixing open GYM equipments at Canara Bank Layout park in Ward No.09, Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE/BTP/WO/74/2016-17 Dated: 20.07.2016
* Sample ID	: Cement Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₁₅
Compressive Strength as on	: 28 th day
Sample Received on	: 10.02.2017



Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	13.01.2017	10.02.2017	8.156	353.6	15.72
2	13.01.2017	10.02.2017	8.294	374.5	16.64
3	13.01.2017	10.02.2017	8.375	388.2	17.25

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